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United States Patent [19][11] **Patent Number:** **6,105,030**

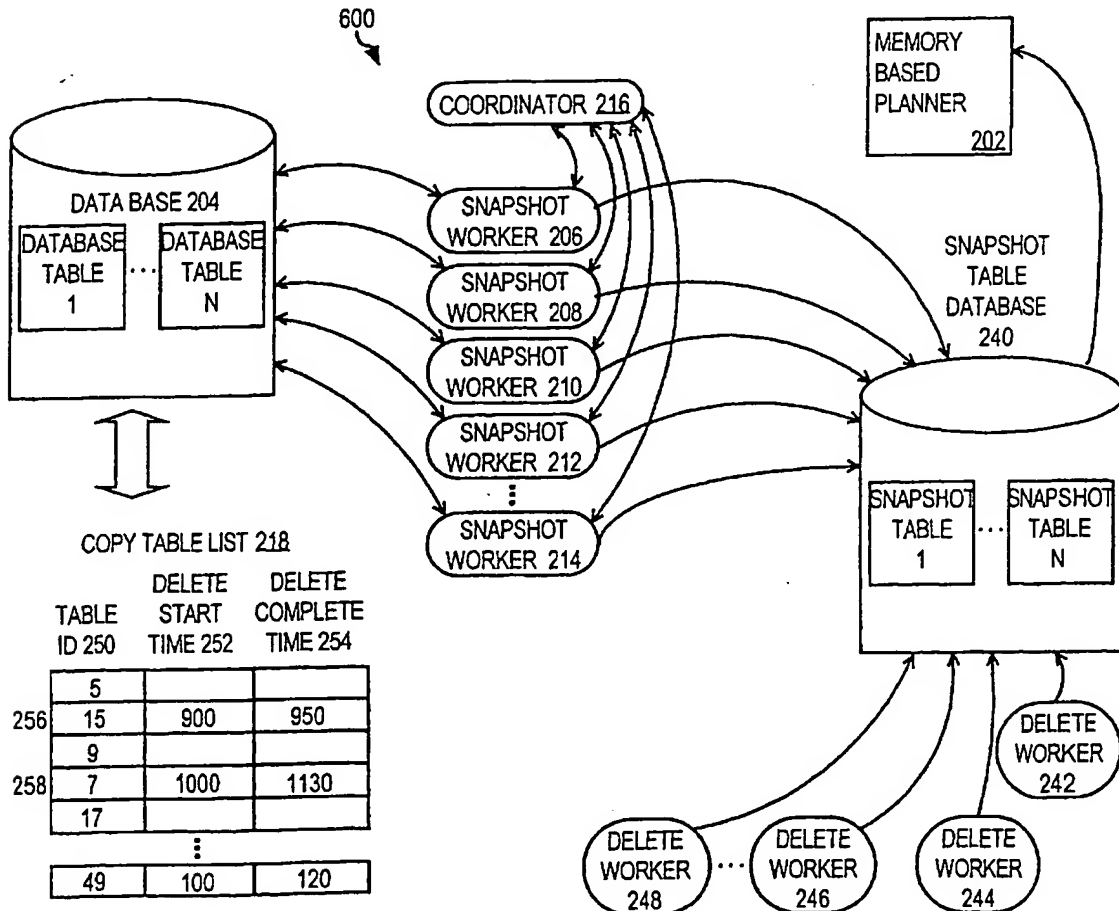
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[45] **Date of Patent:** **Aug. 15, 2000**[54] **METHOD AND APPARATUS FOR COPYING DATA THAT RESIDES IN A DATABASE**

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[75] **Inventors:** Nadeem Syed, Castro Valley; Kurt Robson, Foster City, both of Calif.*Primary Examiner*—Ruay Lian Ho*Attorney, Agent, or Firm*—McDermott, Will & Emery[73] **Assignee:** Oracle Corporation, Redwood Shores, Calif.[57] **ABSTRACT**

A consistent set of data is supplied to a software application from databases. When a particular set of data is identified, a first process is requested to obtain a snapshot time from a database server associated with the first database. The snapshot time causes all subsequent reads of the first database by the first process to return data that reflects a database state associated with the snapshot time. A first set of data in the first database is locked in order to produce a copy of data from a first database. After locking the first set of data, a plurality of processes are requested to obtain snapshot times from a database server associated with the first database. The snapshot times cause all subsequent reads of the first database by the plurality of processes to return data from the first database as of the snapshot times.

[21] **Appl. No.:** 09/032,095[22] **Filed:** Feb. 27, 1998[51] **Int. Cl.⁷** G06F 17/30[52] **U.S. Cl.** 707/10; 707/2[58] **Field of Search** 707/1-10, 100-104, 707/200-206, 500-542; 705/1-11[56] **References Cited****U.S. PATENT DOCUMENTS**5,168,444 12/1992 Cukor et al. 705/1
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EL734970286US